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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/723,060	11/26/2003	Stanislav V. Zhilkov	ZHILIKOV-2	8625	
75	90 12/29/2004		EXAMINER		
Albert T. Keyack			SPECTOR, DAVID N		
1005 Glendevor Ambler, PA 1			ART UNIT PAPER NUMBER 2873		
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			DATE MAILED: 12/29/200	DATE MAILED: 12/29/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)			
		10/723,060	ZHILKOV, STANISLAV	V.		
	Office Action Summary	Examiner	Art Unit			
		David N. Spector	2873			
Period fo	The MAILING DATE of this communication app or Reply	pears on the cover sheet with the	correspondence address			
THE - External enternal entern	ORTENED STATUTORY PERIOD FOR REPL' MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.1. SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period vare to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be ting within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	mely filed ys will be considered timely. n the mailing date of this communic ED (35 U.S.C. § 133).	cation.		
Status						
1)[🛛	Responsive to communication(s) filed on 26 N	lovember 2003.				
2a)□	This action is FINAL. 2b)⊠ This action is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.			
Disposit	ion of Claims					
5)□ 6)⊠ 7)□	Claim(s) 1 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) 1 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or			:		
Applicat	ion Papers					
10)🖾	The specification is objected to by the Examine The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Examine	epted or b) objected to by the drawing(s) be held in abeyance. Se tion is required if the drawing(s) is old	ee 37 CFR 1.85(a). bjected to. See 37 CFR 1.13			
Priority (under 35 U.S.C. § 119					
12)□ a)	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Burea See the attached detailed Office action for a list	ts have been received. ts have been received in Applicat nity documents have been receiv u (PCT Rule 17.2(a)).	tion No ved in this National Stage)		
2) Notice 3) Infor	nt(s) ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) er No(s)/Mail Date	4) Interview Summar Paper No(s)/Mail D 5) Notice of Informal 6) Other: <u>DETAILED</u>	Date Patent Application (PTO-152)			

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DETAILED ACTION

Defective Oath/Declaration

The oath or declaration is defective. A new oath or declaration in compliance with 37 CFR 1.67(a) identifying this application by application number and filing date is required. See MPEP §§ 602.01 and 602.02. The oath or declaration is defective because: it improperly identifies the provisional application 60/429,023, filed 11/25/2002 as belonging to the instant application.

Specification - Objections

A substitute specification in idiomatic English is required pursuant to 37 CFR 1.125(a) because the instant specification is replete with semantic defects and errors that render its meaning unclear (e.g. "transfiguration" surface; "transforming surface"; the entire discussion of the "tpulses"; and many other defects and errors (e.g. listing of references at the end of the specification with numerical call-outs in square brackets throughout body of the specification; headings, and the arrangement/content of the specification; etc). Appropriate revisions/corrections are required, in proper idiomatic English, and in compliance with 37 CFR 1.52(a) and (b). A substitute specification filed under 37 CFR 1.125(a) must only contain subject matter from the original specification and any previously entered amendment under 37 CFR 1.121. If the substitute specification contains additional subject matter not of record, the substitute specification must be filed under 37 CFR 1.125(b) and (c).

Drawings - Objection

The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, at least the periodic surface disposed on the dielectric coupling structure (e.g. "transforming surface") and the electromagnetic field components (e.g. "delayed wave" above said coupling structure must be shown or the feature(s) canceled from the claim(s). No new matter should be entered. Additionally, the numbering of features in FIG. 1 and FIG. 2 is inconsistent, as currently presented. Further, the vacuum housing is improperly illustrated in FIG. 2. Proposed drawing corrections or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

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Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 1 rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. In particular, claim 1 is replete with semantic defects and punctuation errors that render its intended meaning unclear. Furthermore, the functional language extant in the current claims (e.g. "an electromagnetic beam is sent..."; "whereby said em-beam partially transforms into a delayed electromagnetic beam...") must be replaced with clear structural features/limitations that clearly establishes the metes and bounds of the claim(s) to be patented. Correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claim 1, is rejected under 35 U.S.C. 102(b) as being anticipated by Yamada (U.S. Patent No. 6,448,850). Examiner's Note: Since the intended meaning of claim 1 is unclear, the following rejection is based on the examiner's overall/subjective impression of the intended metes and bounds of the claim. Yamada discloses apparatus for producing the sequence of terahertz electromagnetic pulses by a driven particle beam comprising: an initial electromagnetic beam 4 sent to a metal-dielectric structure (e.g. the entire apparatus shown in Yamada's FIG. 1 includes a dielectric plate 6 and metal electrodes 9, 10) whereby said beam partially transforms into a delayed electromagnetic wave, and a beam of charged particles is sent to said structure 6 whereby the particles' kinetic energy partially transforms into energy of the delayed electromagnetic wave having the same phase-frequency characteristics as transformed field of said beam 4 (col. 4. In. 19-60). Claim 1 is therefore anticipated by Yamada.

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Double Patenting Rejection

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Omum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969). A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b). Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claim 1 is provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claim 1 of copending Application No. 10/447,869. Although the conflicting claims are not identical, they are not patentably distinct from each other because all of the features/limitations recited in the body of the instant claim 1 are included in the recitation of claim 1 in the aforesaid copending application. This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

Other Remarks/Information

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Any other inquiry concerning this communication or earlier communications from the examiner should be directed to David N. Spector whose telephone number is (571) 272-2338. The exam-

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iner can normally be reached at this number Monday through Friday between 6:00 AM and 2:30 PM. The fax number for the organization where this application is assigned is (703) 872-9306.

ecember 23, 2004

DAVID N. SPECTOR PRIMARY EXAMINER

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